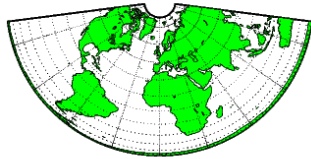
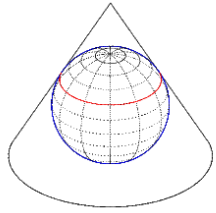
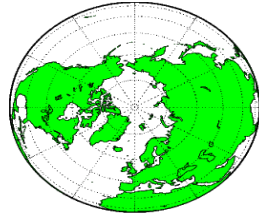
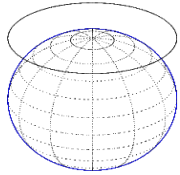


Types of Maps



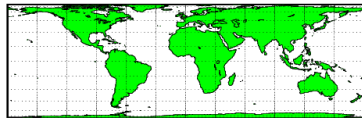
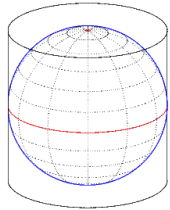
Conic

Advantage
Disadvantage



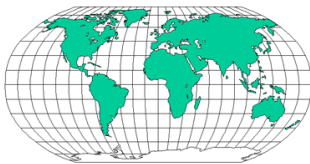
Gnomic

Advantage
Disadvantage



Mercator

Advantage
Disadvantage



ROBINSON

Advantage
Disadvantage

Top Terms to Know

Geology
Oceanography
Meteorology
Astronomy
Hydrosphere
Atmosphere
Geosphere
Biosphere
Latitude
Longitude
Mercator projection
Gnomonic projection
Conic projection
Robinson projection
Topographic map
Hypothesis
Theory
Law

Intro to Earth & Mapping

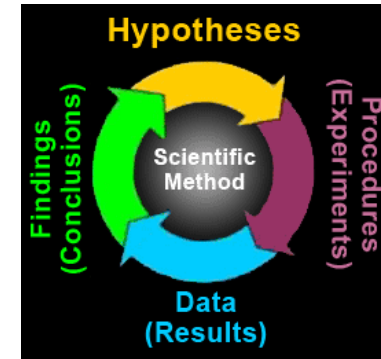


4 Branches of Earth Science

- 1.
- 2.
- 3.
- 4.

Name the branch that is responsible for:

1. Snowstorm prediction
2. Where to mine for gold
3. When will Halley's comet pass through our area again
4. Exploring a deep ocean trench



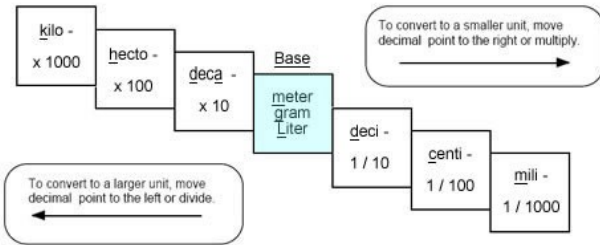
Scientific Method

Remember to complete the mastery questions and turn them in on the day of the test.

In the experiment designed to determine which hand soap produced the cleanest hands, identify the following:

1. Independent variable -
2. Dependent variable -
3. List several variables that would need to be controlled in this experiment.

Metric Conversions



Kids Have Dropped Over Dead Converting Metrics

Try these conversions, using the ladder method.

- 1) 2000 mg = _____ g
- 2) 5 L = _____ mL
- 3) 16 cm = _____ mm
- 4) 104 km = _____ m
- 5) 5.6 kg = _____ g
- 6) 2500 L = _____ kL

Metric Units

LENGTH

- o Basic Unit =
- o Abbreviation =

TEMPERATURE

- o Basic Unit =
- o Abbreviation =

MASS – the amount of matter in an object

- o Basic Unit =
- o Abbreviation =

WEIGHT – the attractive force on mass due to gravity

MASS AND WEIGHT ARE NOT THE SAME THING!!!

Astronauts ARE NOT weightless, they are just far enough away that the Earth's gravitational effect is lessened.

- o Basic Unit =
- o Abbreviation =

VOLUME – the amount of space an object takes up or occupies.

- o Basic Unit =
- o Abbreviation =

DENSITY – the ratio of the mass of a substance to its volume.

- o Formula =
- o Abbreviation =

Latitude

Measures

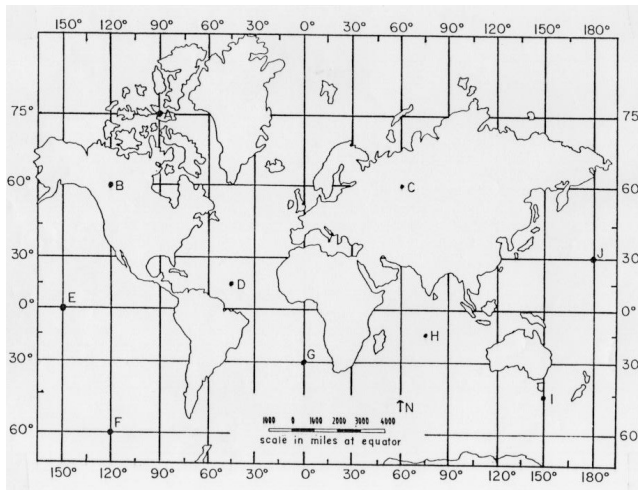
Minimum =

Maximum =

Longitude

Measures

Minimum =



Give the latitude and longitude for each:

- A:
- J:
- H:
- D:

Time Zones

Based off of longitudinal belts of 15°

If you cross a time zone going to the East =

If you cross a time zone going to the West =

If it is 4:00PM at Point D, what time is it at Point H?

International Date Line

If you cross the date line going to the East =

If you cross the date line going to the West =

If it is 2:00PM Monday at Point B, what time and date is it at Point I?

Rules for Topographic Mapping

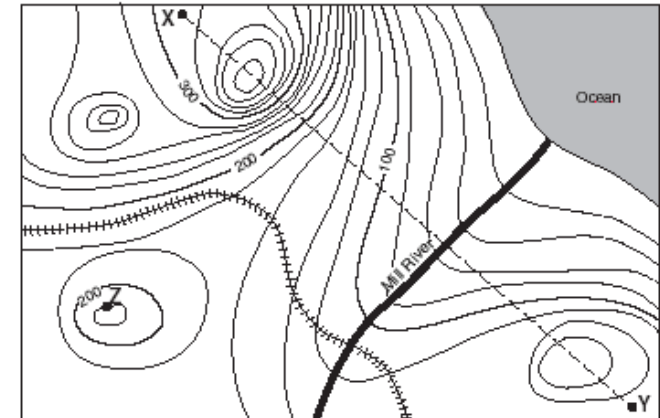
Contour lines can _____ cross.

Contour Interval must be _____.

A “ ” shape represents a valley.

Streams flow _____, and the “ ” points upstream.

Depressions are marked with _____ - goes down by interval.



Draw a depression South of Point Z with an elevation of _____

What is the elevation of Point Z?

Which way is the river flowing? How do you know?

Provide the elevation for Point X. Why can't you provide an exact elevation?

Topographic Maps

Mean Sea Level

Elevation

Relief

Contour Line

Contour Interval

Quadrangle